

Preliminary Amendment

Applicant: Chien-Hua Chen et al.

Serial No.: Unknown (Parent Serial No. 10/003,600)

Filed: Herewith (Parent Filing Date: 10/31/01)

Docket No.: 10005237-3

Title: FLUID EJECTION DEVICE WITH A COMPOSITE SUBSTRATE

IN THE SPECIFICATION

Please amend the specification after the title by inserting the following:

-- Cross-Reference to Related Applications

This application is a Divisional of copending U.S. Patent Application
Serial No. 10/003,600 filed on October 31, 2001, ^{Now U.S. Pat 6,679,587} which is incorporated herein
by reference. --

Please replace the paragraph at page 3, line 17 - page 4, line 2 with the following rewritten paragraph:

-- Figure 2 is a cross sectional perspective view of the printhead 12 of Figure 1 taken along view A-A. Although printhead 12 may have several hundred nozzles and ejection elements, a single fluid firing chamber 36 is used to illustrate this embodiment of the invention. The printhead 12 is composed of first and second silicon substrates with an oxide layer 24 formed between a top surface of the first substrate 26 and a bottom surface of the second substrate 22. Thin film layers 28, including drop ejection elements 30, are formed on a top surface of the second substrate 22. An orifice layer 34 containing nozzles 35 and firing chambers 36 is formed over the thin film layers 28 to complete the structure. At least one feed hole 38 is formed through the thin film layers 28 and second substrate 22 extending through the oxide layer 24. At least one feed trench 37 extends through the ~~second~~ first substrate 26 intersecting with the feed holes 38 to ~~forming form~~ fluid channel 40. The fluid channel 40 fluidically couples the bottom surface of the first substrate 26 with the top surface of the second substrate 22. The fluid is supplied to the back side of the printhead 12 and is channeled into the ejection chamber 36, which contains a fluid ejection element (or heater resistor) 30. Electrical signals energize the fluid ejection element 30, which in turn ejects a droplet of fluid through the nozzle 35. --